
Dual channel control modules REL/isp



General Description

REL/isp consists of plug-in modules, which fit a standard 3U (51/4") 19 inches eurocard rack. Each module REL/isp consists of dual input channels designed to operate with (0-5 V, 4-20 mA) transmitters.

REL/isp performs five programmable logic outputs with **In System Programmable** technology. ISP technology allows for programmable and reprogrammable logic functions for each alarm condition, these capability enables fast and easy modification to the design of the systems, which leads to a substantial reduction of developing, management and systems expansion costs, assuring the user continuous process updating and therefore his investment is secured for a long period.

All REL/isp units have a standard serial line RS-485 adopting different open protocols allowing the connection with a remote master system (PC, PLC or DCS).

For the management of REL/ISP modules, our company supplies a SCADA/HMI software package, able to obtain real-time Supervision, remote control operations, historical trends analysis, as well as the management of the alarms and the applications library of the ready-to-go configuration.

Features

Redundant H/W fail safe structure.
 Three led indicators for three different alarm levels.
 Fault led indicator (Fuse status, sensors fault, main power fail, and battery fail).
 Battery or main power supply led indicator.
 Alarm and fault acoustic indicator.
 Reset and acknowledge alarm buttons.
 Two analogue inputs (0-5 V or 4-20mA).
 Three programmable alarm levels, independently settable in the range 0-100 F.S.
 Four alarm outputs configurable even with isp technology.
 System watchdog output.
 Bar graph indicator related to the analogue input.
 Safety function when analogue signal input exceeding 90% f.s. This function automatically switches-off the power supply to the field sensor .
 Automatic sensor ZERO drift compensation.
 Sensor self-checking and mobile means algorithms for signal conditioning.
 Digital calibration procedure, locally performed by means of a PC or by a remote control device.
 Standard serial line RS-485.
 Graphical programming, VHDL and VERILOG language support.
 Extensive libraries of ready-to-go configuration available.

General specification

Two Analog Inputs	0-5 V or 4-20mA
Five Programmable outputs	Open Collector
Three programmable Set Points	0-100% f.s.
H/W Watch-dog	
A/D resolution	8 bit
Serial line	RS-485

Environmental Specification

EMC susceptibility	10V/m
Storage temperature	-40 to 85 °C
Operating temperature	-40 to 70 °C
Humidity range	100% R.H. n.c.

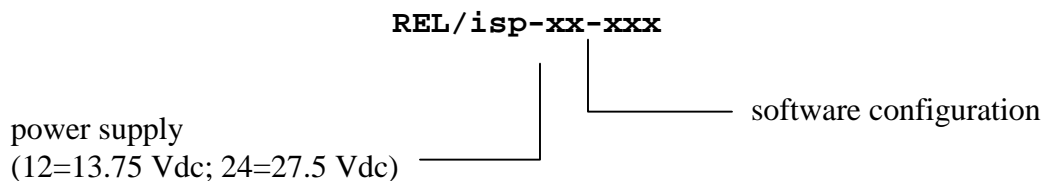
Electrical Specification

Supply voltage	16-30 Vac
Supply current	170 mA max.
Supply fuse	1 A
Stabilised power supply output	13.75 or 27.5 Vdc 5 Watts
Overvoltage protection	± 50V.

Mechanical Specification

Overall dimensions	100x160 mm eurocard
Front Panel	4 TE units.
Mounting	3U-19" Rack
Cabling	20 conductor Ribbon cable

Part number description



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